

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) In a network environment that includes a receiving computing system capable of receiving messages from other computing systems in the network environment, the receiving computing system including a dispatching component that dispatches a received message to groups of one or more methods for further processing, a method for the dispatching mechanism to dispatch a received message ~~even though the dispatch mechanism may not have~~ without having direct access to ~~some~~ at least a portion of information relevant for the dispatch, ~~and even though that the~~ information is not being included in ~~present or is not easily obtained from~~ the message as received by the receiving computing system, the method comprising the following:

an act of receiving a message at the receiving computing system;

an act of passing the received message through one or more receiving path components that are positioned in the receiving path of the message prior to being passed to the dispatching component, the passing of the received message to the dispatching component occurring within the receiving computing system, each of the receiving path components in the receiving path being components of the receiving computing system;

an act of at least one of the one or more receiving path components modifying the message with at least one modification, the modification including information that is not included in the received message;

an act of the dispatching mechanism receiving the modified message from the receiving path within the receiving computing system; and

based on the information obtained in the modification, an act of the dispatching mechanism using the obtained information obtainable from the at least one modification to dispatch the message to a group of one or more methods within the receiving computing system for further processing, the dispatching comprising transferring the modified received message to the group of one or more methods within the receiving computing system for further processing.

2. (Currently Amended) A The method in accordance with Claim 1, wherein the message includes a Simple Object Access Protocol (SOAP) envelope, and wherein the act of at least one of the one or more receiving path components modifying the messages comprises the following:

an act of adding a SOAP header with additional information to the message.

3. (Currently Amended) A The method in accordance with Claim 1, wherein the act of at least one of the one or more receiving path components modifying the messages comprises the following:

an act of adding at least one data field to the message.

4. (Currently Amended) A The method in accordance with Claim 1, wherein the act of at least one of the one or more receiving path components modifying the messages comprises the following:

an act of modifying at least one data field in the message.

5. (Currently Amended) A The method in accordance with Claim 1, wherein the act of at least one of the one or more receiving path components modifying the messages comprises the following:

an act of deleting at least one data field from the message.

6. (Currently Amended) A The method in accordance with Claim 1, wherein the act of at least one of the one or more receiving path components modifying the message comprises the following:

an act of a receiving component modifying the message.

7. (Currently Amended) A The method in accordance with Claim 1, wherein the act of at least one of the one or more receiving path components modifying the message comprises the following:

an act of a receiving path component other than the receiving component modifying the message.

8. (Currently Amended) A The method in accordance with Claim 1, wherein the act of at least one of the one or more receiving path components modifying the message comprises the following:

an act of a single receiving path component modifying the message.

9. (Currently Amended) A The method in accordance with Claim 1, wherein the act of at least one of the one or more receiving patch components modifying the message comprises the following:

an act of a plurality of receiving path components modifying the message.

10. (Currently Amended) A The method in accordance with Claim 1, wherein the at least one modification includes a connection identification identifying a connection that the message was received over.

11. (Currently Amended) A The method in accordance with Claim 1, wherein the at least one modification includes a protocol type used to receive the message.

12. (Currently Amended) A The method in accordance with Claim1, wherein the at least one modification includes a time that the message was received.

13. (Currently Amended) A The method in accordance with Claim 1, wherein the at least one modification includes information related to a handling priority of the message.

14. (Currently Amended) A The method in accordance with Claim 1, wherein the at least one modification includes information related to a status of a sender of the message.

15. (Currently Amended) A The method in accordance with Claim 1, wherein the at least one modification includes information related to load of the computing system.

16. (Currently Amended) A The method in accordance with Claim 1, wherein the act of the dispatching mechanism using the at least one modification to dispatch the message to a group of one or more methods for further processing comprises the following:

an act of accessing a dispatch rule that references information present in the at least one modification to the message; and

an act of dispatching the message according to the dispatch rule.

17. (Currently Amended) A The method in accordance with Claim 16, wherein the dispatch rule is expressed using one or more XPATH statements.

18. (Currently Amended) A computer program product for use in a network environment that includes a receiving computing system capable of receiving messages from other computing systems in the network environment, the receiving computing system including a dispatching component that dispatches a received message to groups of one or more methods for further processing, the computer program product for performing a method for the dispatching mechanism to dispatch a received message ~~even though the dispatch mechanism may not have~~ without having direct access to ~~some~~ at least a portion of information relevant for the dispatch, ~~and even though that the information is not being included in present or is not easily obtained from the message as received by the receiving computing system,~~ the computer program product comprising one or more recordable-type computer-readable media having thereon computer-executable instructions that, when executed by one or more processors of the computing system, cause the computing system to perform the following:

an act of accessing a received message, the message being received at the receiving computing system;

an act of a receiving path component modifying the received message with at least one modification, the modification including information that is not included in the received message; and

an act of providing the modified message at least indirectly through one or more other receiving path components within the receiving computing system to the dispatching mechanism so that the dispatching mechanism, based on the information obtained in the modification may use the obtained information ~~obtainable from the at least one modification~~ to dispatch the message to a group of one or more methods within the receiving computing system for further

processing, the dispatching comprising transferring the modified received message to the group of one or more methods within the receiving computing system for further processing.

19. (Currently Amended) A The computer program product in accordance with Claim 18, wherein the message includes a Simple Object Access Protocol (SOAP) envelope, and wherein computer-executable instructions for performing the act of at least one of the one or more receiving path components modifying the messages comprise computer-executable instruction for performing the following:

an act of adding a SOAP header with additional information to the message.

20. (Currently Amended) A The computer program product in accordance with Claim 18, wherein the computer-executable instructions for performing the act of modifying the message with at least one modification comprise computer-executable instructions for performing the following:

an act of adding at least one data field to the message.

21. (Currently Amended) A The computer program product in accordance with Claim 18, wherein the computer-executable instructions for performing the act of modifying the message with at least one modification comprise computer-executable instructions for performing the following:

an act of modifying at least one data field in the message.

22. (Currently Amended) A The computer program product in accordance with Claim 18, wherein the computer-executable instructions for performing the act of modifying the message with at least one modification comprise computer-executable instructions for performing the following:

an act of deleting at least one data field from the message.

23. (Currently Amended) A The computer program product in accordance with Claim 18, wherein the at least one modification includes a connection identification identifying a connection that the message was received over.

24. (Currently Amended) A The computer program product in accordance with Claim 18, wherein the at least one modification includes a protocol type used to receive the message.

25. (Currently Amended) A The computer program product in accordance with Claim 18, wherein the at least one modification includes a time that the message was received.

26. (Currently Amended) A The computer program product in accordance with Claim 18, wherein the at least one modification includes information related to a handling priority of the message.

27. (Currently Amended) A The computer program product in accordance with Claim 18, wherein the at least one modification includes information related to a status of a sender of the message.

28. (Currently Amended) A The computer program product in accordance with Claim 18, wherein the at least one modification includes information related to load of the computing system.

29. (Currently Amended) A The computer program product in accordance with Claim 18, wherein the one or more computer-readable media comprise physical memory media.

30. (Currently Amended) A The computer program product in accordance with Claim 29, wherein the physical memory media comprises persistent memory.

31. (Currently Amended) A The computer program product in accordance with Claim 29, wherein the physical memory media comprises system memory.

32. (Currently Amended) In a network environment that includes a receiving computing system capable of receiving messages from other computing systems in the network environment, the receiving computing system including a dispatching component that dispatches a received message to groups of one or more methods for further processing, a method for the dispatching mechanism to dispatch a received message ~~even though the dispatch mechanism may not have~~ without having direct access to ~~some~~ at least a portion of information relevant for the dispatch, ~~and even though that the~~ information is not being included in ~~present or is not easily obtained from~~ the message as received by the receiving computing system, the method comprising the following:

a step for modifying a received message with at least one modification prior to being provided to the dispatching mechanism, the modification including information that is not included in the received message; and

based on the information obtained in the modification, an act of the dispatching mechanism using the obtained information ~~obtainable from the at least one modification to~~ dispatch the message to a group of one or more methods within the receiving computing system for further processing, the dispatching comprising transferring the modified received message to the group of one or more methods within the receiving computing system for further processing.

33. (Currently Amended) A The method in accordance with Claim 32, wherein the step for modifying a received message comprises the following:

an act of receiving the message at the receiving computing system;

an act of passing the received message through one or more receiving path components that are positioned in the receiving path of the message prior to being passed to the dispatching

component, the passing of the received message to the dispatching component occurring within the receiving computing system, each of the receiving path components in the receiving path being components of the receiving computing system;

an act of at least one of the one or more receiving path components modifying the message with at least one modification, the modification including information that is not included in the received message; and

an act of the dispatching mechanism receiving the modified message from the receiving path within the receiving computing system.

34. (Currently Amended) A computing system comprising the following:

one or more processors;

system memory;

one or more computer-readable media having thereon computer-executable instructions that, when executed by the one or more processors, causes the computing system to perform the following:

an act of receiving a message at the receiving computing system;

an act of passing the received message through one or more receiving path components that are positioned in the receiving path of the message prior to being passed to the dispatching component, the passing of the received message to the dispatching component occurring within the receiving computing system, each of the receiving path components in the receiving path being components of the receiving computing system;

an act of at least one of the one or more receiving path components modifying the message with at least one modification, the modification including information that is not included in the received message;

an act of the dispatching mechanism receiving the modified message from the receiving path within the receiving computing system; and

based on the information obtained in the modification, an act of the dispatching mechanism using the obtained information to dispatch the message to a group of one or more methods within the receiving computing system for further processing, the dispatching comprising transferring the modified received message to the group of one or more methods within the receiving computing system for further processing

~~one or more receiving path components that are positioned in the receiving path of the message prior to being passed to a dispatching component, wherein at least one of the receiving path components is configured to modify the message with at least one modification; and~~

~~the dispatching component that dispatches received messages to groups of one or more methods for further processing, the dispatching component using information obtainable from the at least one modification to dispatch the message.~~